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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/838,376	04/19/2001		Steven Edward Atkin	AUS920010278US1 9255		
45993	7590 10/05/2004			EXAMINER		
IBM CORP		, ,	NGUYEN, MAIKHANH			
P. O. BOX 23			ART UNIT	PAPER NUMBER		
OKLAHOMA	A CITY,	OK 73123	2176			

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)	— J				
	09/838,376	ATKIN, STEVEN	としい とう とう とう とう とう こう				
Office Action Summary	Examiner	Art Unit					
	Maikhanh Nguyen	2176					
The MAILING DATE of this communication app		correspondence add	dress				
Period for Reply	(10.0FT TO EVEIDE - 1.00.FT						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from Cause the application to become ABANDONE	mely filed /s will be considered timely the mailing date of this co	, mmunication.				
Status							
1)⊠ Responsive to communication(s) filed on 19 Ap	oril 2001.		,				
	action is non-final.						
3) Since this application is in condition for allowan			merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-24 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	n from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-24</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
10)☐ The drawing(s) filed on is/are: a)☐ acce							
Applicant may not request that any objection to the d	· · · · · · · · · · · · · · · · · · ·	· · ·					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•	aminer. Note the attached Office	Action or form P10) -152.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign part a) All b) Some * c) None of: 1. Certified copies of the priority documents 		-(d) or (f).					
2 Certified copies of the priority documents		on No.					
Copies of the certified copies of the priori	ty documents have been receive		Stage				
application from the International Bureau							
* See the attached detailed Office action for a list o	f the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P		-152)				
Paper No(s)/Mail Date <u>04/19/2000</u> .	6) Other:		·/				

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DETAILED ACTION

- 1. This action is responsive to the following communications: original application filed 04/19/2001.
- 2. Claims 1-24 are currently pending in this application. Claims 1, 9, and 17 are independent claims.

Specification

3. Applicants are required to amend pages 1-2 of the specification to include the serial numbers of related applications and their current status. Appropriate correction is required.

Claim Objections

4. Claim 1 is objected to because of the following informalities: "a Unicode character streams" (line 1) should read "a Unicode character stream". Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The following phrases lack antecedent basis:

- -"the character stream" (claim 1, lines 2-3; and claim 17, lines 2-3); and
- -" the tag identifier" (claims 1, 9, and 17, lines 4-5)

Dependent claims 2-8, 10-16, and 18-24 are rejected for fully incorporating the deficiencies of their base claims.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 6, 8-11, 14, 16-19, 22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Durst et al.**, "Unicode in XML and other Markup Languages", cited by Applicant's IDS in view of **Applicant Admitted Prior Art** (APA).

As to independent claim 1, Durst teaches a method for providing metadata within a Unicode character streams the metadata describing information necessary for accurate display rendering of the character stream, the method comprising the steps of:

- inserting one or more tags into a Unicode character stream by spelling the tag identifier (Section 4.1 and table 4.1; pages 11-12).

- inserting a tag separator between multiple tags if more than one tag has been inserted, so as to create a modified character stream having separator-delimited metadata embedded within it (Section 3.3; page 7).

Durst does teach tags, but Durst does not specially teach "metatag".

APA teaches metatag (metadata 'tagging'; page 14, lines 1-3).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from APA in the system of Durst because it would provided the capability for facilitating the implementation of Unicode in the markup language.

As to dependent claim 2, Durst teaches inserting one or more parameters following at least one tag with which it is associated; and inserting a parameter separator between multiple parameters associated with a tag if more than one parameter has been inserted so as to create a separator-delimited parameter list following a tag (Section 3.3, page 7).

As to dependent claim 3, Durst teaches inserting an element tag describes zero width joiner and zero width non joiner characters, such that multiple characters may be grouped together for treatment as a single grapheme or text element (e.g., Zero-width Joiners 'ZWJ and ZWNJ'; table 3.2).

As to dependent claim 6, Durst teaches replacing hyper text markup language bidirectional output tags with the direction tags and directional parameters (e.g., editing bidirectional HTML; page 8 and Replacement Markup table).

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As to dependent claim 8, Durst teaches inserting a math tag and a language tag such that portions of the character stream which represent mathematical expressions are delimited from portions of the character stream which represent language (page 14).

As to independent claim 9, it is directed a computer readable medium for implementing the method of claim 1, and is similarly rejected under the same rationale.

As to dependent claims 10 and 18, they include the same limitations as in claim 2, and is similarly rejected under the same rationale.

As to dependent claims 11 and 19, they include the same limitations as in claim 3, and are similarly rejected under the same rationale.

As to dependent claims 14 and 22, they include the same limitations as in claim 6, and are similarly rejected under the same rationale.

As to dependent claims 16 and 24, they include the same limitations as in claim 8, and are similarly rejected under the same rationale.

As to independent claim 17, it is directed a system for performing the method of claim 1, and is similarly rejected under the same rationale.

7. Claims 4-5, 7, 12-13, 15, 20-21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Durst et al.**, in view of **Applicant Admitted Prior Art (APA)** as applied to claims 1-2, 9-10, and 17-19 above and further in view of **Davis** "Unicode Standard Annex #9 – The Bidirectional Algogithm", published 03/2001.

As to dependent claim 4, the combination of Durst and APA does not specially teach "inserting a right-to-left or a left-to-right directional parameter following a paragraph metatag

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which indicate a direction in which the character stream following the paragraph metatag and parameter is to be rendered for display."

Durst teaches inserting a right-to-left or a left-to-right directional parameter following a paragraph tag which indicate a direction in which the character stream following the paragraph tag and parameter is to be rendered for display (e.g. the right-to-left and left-to-right marks; page 4, Direction Formatting Codes).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from Davis in the system of Durst as modified by APA because it would provided the capability for facilitating the implementation of Unicode in the markup language.

As to dependent claim 5, the combination of Durst and APA does not specially teach "inserting a right-to-left or a left-to-right directional parameter following a direction metatag which indicate a direction in which the character stream following the direction metatag and parameter is to be rendered for display."

Davis teaches inserting a right-to-left or a left-to-right directional parameter following a direction tag which indicate a direction in which the character stream following the direction tag and parameter is to be rendered for display (e.g., the right-to-left and left-to-right marks; page 4, Direction Formatting Codes).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from Davis in the system of Durst as modified by APA because it would provided the capability for facilitating the implementation of Unicode in the markup language.

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Daniela et al

As to dependent claim 7, the combination of Durst and APA does not specially teach "inserting a mirror metatag which indicates the characters following the mirror metatag is to be presented in mirror fashion."

Davis teaches inserting a mirror metatag which indicates the characters following the mirror tag is to be presented in mirror fashion (section Mirroring; page 2 - page 3).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from Davis in the system of Durst as modified by APA because it would provided the capability for ensuring the correct character code is used to express the intended semantic of the character.

As to dependent claims 12-13 and 20-21, they include the same limitations as in claims 4-5, and are similarly rejected under the same rationale.

As to dependent claims 15 and 23, they include the same limitations as in claim 7, and are similarly rejected under the same rationale.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Daniels et al.	U.S Patent No. 5,784,069	issued: Jul. 21, 1998
Edberg et al.	U.S Patent No. 5,793,381	issued: Aug. 11, 1998
Okada	U.S Patent No. 5,889,481	issued: Mar. 30, 1999
Craft	U.S Patent No. 6,070,179	issued: Mar. 30, 2000
Teare al.	U.S Patent No. 6,151,624	issued: Nov. 21, 2000

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Gonzales et al. U.S Patent No. 6,204,782 issued: Mar. 30, 2001

Davis U.S Patent No. 6,438,516 issued: Aug. 30, 2002

Davis et al., "Unicode", IEEE, 1990, pages 499-504.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maikhanh Nguyen whose telephone number is (703) 306-0092. After mid-October, 2004, the examiner can be reached at (571) 272-4093. The examiner can normally be reached on Monday - Friday from 9:00am – 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H Feild can be reached on (703) 305-9792.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maikhanh Nguyen September 29, 2004

SUPERVISORY PATENT EXAMINER

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